DT01 Rec'd PCT/PTO    19 OCT 2004

## AMENDMENTS TO THE CLAIMS

1.      (Cancelled)

2.      (Cancelled)

3.      (Cancelled)

4.      (Cancelled)

5.      (Cancelled)

6.      (Cancelled)

7.      (Cancelled)

8.      (Cancelled)

9.      (Cancelled)

10.     (Original) An image coding apparatus for coding a plurality of images data corresponding

respectively to a plurality of viewpoints, comprising:

        a joining means for joining the plurality of images data based on a predetermined joining method;

        a coding means for coding a joined image data; and

        a 2-dimensional display image generating method coding means for coding a method of

generating a 2-dimensional display image from the joined image data.

11.     (Cancelled)

12.     (Cancelled)

13.     (Original) An image decoding apparatus for decoding coded data of joined image data and 2-

dimentional display image generating method information, the joined image data being formed by joining

a plurality of images data corresponding respectively to a plurality of viewpoints, in a predetermined joining method, comprising:

a decoding means for decoding the joined image data;

a 2-dimentional display image generating method decoding means for decoding the 2-dimentional display image generating method information; and

a 2-dimentional display image generating means for generating a 2-dimentional display image, using a decoded image data and a decoded 2-dimentional display image generating method information.

14.    (Cancelled)

15.    (Previously presented) The image decoding apparatus according to Claim 13, wherein the 2-dimensional display image is a miniaturized image for displaying a plurality of the joined images data in a menu representation.

16.    (Original) A recording medium for storing a plurality of coded images data corresponding respectively to a plurality of viewpoints, together with header information, in a predetermined format, wherein the header portion stores stereo image identification information that represents the fact that the coded data constitutes a stereo image made up of a plurality of images data and information that represents a joining method of joining the plurality of images data.

17.    (Original) A recording medium for storing a plurality of coded images data corresponding respectively to a plurality of viewpoints, together with header information, in a predetermined format, wherein the header portion stores stereo image identification information that represents the fact that the coded data constitutes a stereo image made up of the plurality of images data and information indicating a

method of generating a 2-dimentional display image from the coded data.

18.    (Currently amended) The recording medium according to Claim 16 or 17, wherein the header portion is repeatedly multiplexed to the coded data.

19.    (Currently amended) The image decoding apparatus according to Claim 13 or 15, further comprising a display means capable of switching between a stereo representation and a 2-dimentional representation.

20.    (Original) The image decoding apparatus according to Claim 19, wherein automatic switching is done between the stereo representation and the 2-dimentional representation, based on the information stored in the header portion.

21.    (Cancelled)

22.    (Cancelled)

23.    (Cancelled)

24.    (Cancelled)

25.    (Original) An image recording apparatus for recording a plurality of images data corresponding respectively to a plurality of viewpoints, into a recording area, comprising:

        a joining means for joining the plurality of images data using a predetermined joining method; and

        a 2-dimensional display image generating method coding means for encoding a method of generating a 2-dimensional display image from a joined image data,

wherein the recording area includes:

an image recording sector for recording the joined image data or the 2-dimentsional image data;

an audio recording sector for recording an audio data; and

a subcode sector for recording an associated information.

26.     (Original) An image recording apparatus for recording a plurality of images data corresponding respectively to a plurality of viewpoints, into a recording area, comprising:

a joining means for joining the plurality of images data using a predetermined joining method; and

a 2-dimensional display image generating method coding means for encoding a method of generating a 2-dimensional display image from a joined image data,
wherein the recording area includes an image recording sector for recording the joined image data or a 2-dimentsional image data, and a coded data of information of generating the 2-dimensioal display image is recorded in the image recording sector.

27.     (Original) An image recording apparatus for recording a plurality of images data corresponding respectively to a plurality of viewpoints, into a recording area, comprising:

a joining means for joining the plurality of images data using a predetermined joining method; and

a 2-dimensional display image generating method coding means for encoding a method of generating a 2-dimensional display image from a joined image data,
wherein the recording area includes an audio recording sector for recording an audio data, and a coded data of information of generating the 2-dimensioal display image is recorded in the audio recording sector.

28.     (Original) An image recording apparatus for recording a plurality of images data corresponding

respectively to a plurality of viewpoints, into a recording area, comprising:

a joining means for joining the plurality of images data using a predetermined joining method;

and

a 2-dimensional display image generating method coding means for encoding a method of

generating a 2-dimensional display image from a joined image data,

wherein the recording area includes a subcode sector for recording an associated information, and a coded

data of information of generating the 2-dimensioal display image is recorded in the subcode recording

sector.


29.     (New) The recording medium according to Claim 17, wherein the header portion is repeatedly

multiplexed to the coded data.


30.     (New) The image decoding apparatus according to Claim 15, further comprising a display means

capable of switching between a stereo representation and a 2-dimentional representation.